

**Virginia's**  
**Drinking Water State Revolving Fund Program**  
**Intended Use Plan for FY 2005**

**DRAFT**

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The federal Safe Drinking Water Act Amendments of 1996 (P.L.104 -182), referred to as SDWA, established a Drinking Water State Revolving Fund (DWSRF) Program. Funds for the DWSRF Program are awarded to eligible states through a capitalization grant.

The Virginia Department of Health (VDH) has had primary enforcement responsibility, primacy, for SDWA since 1977. Therefore, VDH has been designated as the agency to apply for and administer the capitalization grant for the DWSRF Program and the associated state funds.

The development of an annual Intended Use Plan (IUP) is a required part of the application (§1452 (b) of the SDWA) for a capitalization grant. An IUP must describe how the capitalization grant will be expended, including all set-aside and construction funds. This IUP undergoes public comment.

Funds awarded to a state through a capitalization grant are categorized into two uses: (i) non-project funds or set-asides and (ii) project funds, which are utilized for construction at public drinking water systems (waterworks). Set-aside funds enhance the ability of the state and owners of waterworks to ensure a waterworks' long-term capacity to produce safe drinking water and to protect construction loan investments. Construction funds for waterworks are to be utilized to address public health problems and to ensure compliance with the provisions of the SDWA. Construction funds may not be utilized to satisfy growth demands.

A 20% state match is required to obtain the capitalization grant. The matching funds must be deposited into a dedicated State Loan Fund. For a dedicated State Loan Fund, VDH has directed funds to the *Virginia Water Supply Revolving Fund* (§62.1-233 et seq. of the *Code of Virginia*). Under this state law and in conjunction with VDH, the Virginia Resources Authority has certain responsibilities for individual construction loans.

Congress has set a goal of providing 15% of the amounts credited to the state loan fund as loan assistance to waterworks that regularly serve fewer than 10,000 persons. VDH will bypass higher ranked projects if necessary to meet this goal.

**Funding and Financial Status**

For the federal fiscal year **2005**, Virginia's allocation is **\$11,473,900** in federal funds. Some loan repayments and interest are available. For the 20% match requirements, VDH will transfer state general funds to its designated State Loan Fund, i.e., the Virginia Water Supply Revolving Fund (VWSRF), as federal funds are realized. The state will provide \$2,294,780 in general funds. Of the total available money of **\$16,211,463**, the FY2005 IUP allocates \$2,050,346 for set-asides and \$14,161,117 for State Loan Fund construction projects. No funds were transferred to VDH by the Department of Environmental Quality's (DEQ) Clean Water State Revolving Fund (CWSRF) to fund additional construction projects. Therefore, construction funds total \$14,161,117. VDH allocated 17.86965% of the grant funds as set-asides. All of the 2% set-aside (\$229,478) is reserved for possible set-aside use in a future grant and added to the previous set-aside reserves for a total of **\$9,399,025**. No reserve amount has been reclaimed for set-aside use in this IUP or any previous IUP.

In 1997, the first year of the DWSRF Program, federal funds allocated to Virginia were \$29,442,400, but the 20% state match requirement was deferred until September 30, 1999. However, in the 1998 IUP, \$1,720,940 of the deferral was provided; in the 1999 IUP, \$1,587,280; in the 2000 IUP, \$958,183; and in the 2001 IUP, the remainder of \$1,622,077. In 1997, the Commonwealth allocated 22% of the funds as set-asides; 9% (\$2,649,816) of the 10% set-aside was reserved for possible use in a future grant.

For federal FY 1998, Congress allocated \$13,895,300 to Virginia. The state added \$4,500,000 in general funds. In its 1998 IUP, VDH allocated \$2,779,060 for set-asides and \$15,616,240 for loan projects (\$11,116,240 in Federal funds and \$4,500,000 in state funds). In its 1998 IUP, VDH allocated 20% of the funds as set-asides; 8% (\$1,111,624) of the 10% set-aside was reserved for possible use in a future grant.

For federal FY 1999, Congress allocated \$14,563,600 to Virginia. The state's Appropriation Act (April 14, 1998) provided \$4,500,000 in general funds. The FY 1999 IUP allocated the total available money of \$19,063,600 as \$1,852,781 for set-asides and \$17,210,819 for State Loan Fund construction projects (\$12,710,819 in federal funds and \$4,500,000 in state funds). Therefore, VDH allocated 12.722% of the funds as set-asides; 9.278% (\$1,351,211) of the 10% set-aside was reserved for possible use in a future grant.

For federal FY 2000, Congress allocated \$15,135,800 to Virginia. The state added \$3,985,343 in general funds. The FY 2000 IUP allocated the total available money of \$19,121,143 as \$1,291,840 for set-asides and \$17,829,303 for State Loan Fund construction projects (\$13,834,960 in federal funds and \$3,985,343 in state funds). Therefore, VDH allocated 8.535% of the funds as set-asides. The 8.415% (\$1,273,678) of the 10% set-aside is reserved for possible set-aside use in a future grant.

For federal FY 2001, Virginia's final allocation was \$15,198,400 in federal funds. Also, \$2,886,953 was moved from prior years' 15% set-aside category to construction. The state added \$5,153,137 in general funds and \$7,324 in interest. The FY 2001 IUP

allocated the total available money of \$23,260,573 as \$1,745,129 for set-asides and \$21,515,444 for State Loan Fund construction projects. Therefore, VDH allocated 11.4823% of the funds as set-asides. The 0.2116% (\$32,160) of the 4% set-aside, the 0.9076% (\$137,940) of the 2% set-aside and 8.2822% (\$1,258,761) of the 10% set-aside are reserved for possible set-aside use in a future grant.

For federal FY 2002, Virginia's final allocation was \$11,127,600 in federal funds. Only a small amount of loan repayments and interest were available. The state added \$4,500,000 in general funds. The FY2002 IUP allocated the total available money of \$15,816,207 as \$1,373,642 for set-asides and \$14,442,565 for State Loan Fund construction projects. Also, \$1,000,000 was transferred by DEQ's CWSRF to fund additional drinking water construction projects. Therefore, construction funds totaled \$15,442,565. VDH allocated 12.3445% of the grant funds as set-asides. The 1.1761% (\$130,868) of the 4% set-aside, the 1.1340% (\$126,184) of the 2% set-aside and 4.5088% (\$501,724) of the 10% set-aside are reserved for possible set-aside use in a future grant.

For the federal fiscal year 2003, Virginia's allocation was \$11,060,700 in federal funds. Some loan repayments and interest were available. The state added \$4,500,000 in general funds. The FY2003 IUP allocated the total available money of \$16,509,379 as \$1,881,913 for set-asides and \$14,627,466 for State Loan Fund construction projects. No funds were transferred to VDH by DEQ's CWSRF to fund additional construction projects. Therefore, construction funds total \$14,627,466. VDH allocated 17.0144% of the grant funds as set-asides. The 1.2266% (\$135,674) of the 2% set-aside and 0.9414% (\$104,125) of the 10% set-aside are reserved for possible set-aside use in a future grant.

For the federal fiscal year **2004**, Virginia's allocation was **\$11,473,900** in federal funds. Some loan repayments and interest were available. The state added \$2,294,780 in general funds. The FY2004 IUP allocated the total available money of **\$15,601,105** as \$1,824,040 for set-asides and \$13,777,065 for State Loan Fund construction projects. No funds were transferred to VDH by DEQ's CWSRF to fund additional construction projects. Therefore, construction funds totaled \$13,777,065. VDH allocated 15.89730% of the grant funds as set-asides. All of the 2% set-aside (\$229,478) and 1.10081% (\$126,306) of the 10% set-aside were reserved for possible set-aside use in a future grant.

No funds are to be transferred out of this Program under Section 302 of the Safe Drinking Water Act Amendments of 1996.

**Summary**  
**Virginia Drinking Water State Revolving Fund Program**  
**Intended Use Plan**  
**FY 2005**

**I. SOURCES**

Federal **FY 2005** Allocation = **\$11,473,900** based on a national appropriation of **\$844.985** million  
 State's General Fund 20% match required = \$2,294,780  
**SUBTOTAL 1** \$13,768,680  
 Other state funds = **\$0**  
 Total state funds this year \$2,294,780  
**SUBTOTAL 2** \$13,768,680  
 Other sources =  
     interest earned (0945) \$2,324  
     interest earned (VWSRF) \$44,586  
     repaid principal \$1,924,838  
     repaid interest \$471,035  
     **\$2,442,783**  
**SUBTOTAL 3** \$16,211,463  
 TRANSFER from DEQ's CWSRF \$0  
 Grand Total Funds Available = \$16,211,463

**II. USE for Set-asides**

| Category  | Maximum % and Name                            | Percent chosen   | Amount             |
|-----------|-----------------------------------------------|------------------|--------------------|
| 1         | 4% Administration and Technical Assistance    | <b>4.0000%</b>   | <b>458,956</b>     |
| 2         | 2% Small System Technical Assistance          | <b>0.0000%</b>   | <b>0</b>           |
| 3         | 10% State Program Management                  | <b>10.00000%</b> | <b>1,147,390</b>   |
| 4         | 15% Local Assistance and other State Programs | <b>3.86965%</b>  | <b>444,000</b>     |
| Sub-total |                                               | <b>17.86965%</b> | <b>\$2,050,346</b> |

**III. USE for Loan funds**

|                                                                           |              |                            |                     |
|---------------------------------------------------------------------------|--------------|----------------------------|---------------------|
| Federal Allocation =                                                      | \$11,473,900 |                            |                     |
| minus set asides                                                          | \$2,050,346  |                            |                     |
| Federal loan funds                                                        | \$9,423,554  | 82.13035% of federal grant |                     |
| plus 20% match required =                                                 | \$2,294,780  |                            |                     |
| <b>SUBTOTAL</b>                                                           |              | \$11,718,334               |                     |
| plus Other state funds =                                                  | \$0          |                            |                     |
| <b>SUBTOTAL</b>                                                           |              | \$11,718,334               |                     |
| plus other sources =                                                      | \$2,442,783  |                            |                     |
| <b>SUBTOTAL</b>                                                           |              | \$14,161,117               |                     |
| plus Transfer from DEQ's CWSRF                                            | \$0          |                            |                     |
| <b>TOTAL Amount available</b>                                             | \$14,161,117 |                            |                     |
| Amount available after subtracting Set-asides =                           |              |                            | <b>\$14,161,117</b> |
| Amount loaned to Demonstration Project for Southwest Virginia Endowment = |              |                            | <b>\$0</b>          |
| <b>Balance available for individual project loan and subsidies =</b>      |              |                            | <b>\$14,161,117</b> |
| Subsidies --up to 30% of grant may be used =                              |              | <b>30.00%</b>              | <b>\$3,442,170</b>  |
| Loans =                                                                   |              |                            | <b>\$10,718,947</b> |
| Total =                                                                   |              |                            | <b>\$14,161,117</b> |

## **SUMMARY OF ACTIVITIES IMPLEMENTED BY THIS IUP**

The preceding Summary Chart shows the percentages of the federal grant reserved for set-aside activities and construction loan assistance to eligible applicants. State match funds are appropriated as general funds for the Virginia Department of Health (VDH) to provide the 20% match.

Of these construction funds **100%** will be provided to waterworks that serve less than 10,000 persons. Within the construction funds, 30% of the grant is allotted to disadvantaged waterworks. Actual usage of the 30% is subject to individual determinations on loan terms for each applicant meeting the definition of disadvantaged.

The particular percentages to be used for each of the four set-aside categories are shown in the Summary Chart.

## **THE VIRGINIA DWSRF PROGRAM**

The document dated January 20, 2004, entitled “Virginia Drinking Water State Revolving Fund Program - Program Design Manual” is a part of the Intended Use Plan. This manual explains the Program’s overall goal, the set-aside and construction aspects of the Program, entities eligible for funding, interest rates and terms, and criteria used to establish a Project Priority List.

The manual addresses the unique **1452 (k) Loans** set-aside provision (under the 15% set-aside) that allows purchase of land or conservation easements as well as funds for certain source water protection programs. This is a separate provision of the Program, and infrastructure projects are not required in conjunction with the use of these funds. The Program Design Manual contains criteria for evaluating and ranking applicants.

## **LONG AND SHORT TERM GOALS**

VDH bases this Program on the fact that safe drinking water is essential to public health. The goal of VDH in administering the capitalization grant is to provide a comprehensive and integrated technical and financial assistance program to waterworks owners through a balanced approach of using set-aside funding and construction loan funds to achieve the following objectives:

### **A. Long Term**

- Help assure that Virginians will be the healthiest people in the nation, in regards to drinking water.
- Protect the public health and welfare by planning and directing activities that assure adequate water quantity and quality are provided to users of waterworks.

- Assist waterworks owners in complying with federal and state mandated drinking water regulations through both programmatic and construction assistance.
- Assist and encourage waterworks owners to develop strategies to develop and maintain the capacity (adequate managerial, technical, and financial capability and well-trained operators) to provide safe drinking water for the long term.
- Assist waterworks owners in the protection of their source waters by developing or assisting to develop source water protection programs.
- Assist waterworks owners in correcting health problems related to drinking water through both programmatic and construction assistance.
- Aggressively market the available drinking water programmatic and construction assistance, to assist waterworks owners and consumers.

#### B. Short Term

- Receive each year's DWSRF Program money as soon as possible from EPA so citizens of Virginia may benefit.
- Assist waterworks owners by creating innovative technical assistance programs.
- Promote consolidation and regionalization of water supplies and waterworks through both programmatic and construction assistance.
- Provide a source of low cost financing for drinking water needs.
- Ensure that all new Community and Nontransient Noncommunity water systems beginning operation after October 1, 1999, have the technical, financial, and managerial capacity with respect to each national primary drinking water standard in effect, or likely to be in effect, on the date of starting operations.
- Ensure that operator certification regulations meeting EPA national requirements are applied and that coordination is achieved to provide training courses, especially for the lower classifications of licensed operators needed at the smaller waterworks.

### **DEMONSTRATION PROJECT FOR STATE OF VIRGINIA**

The SDWA authorizes Virginia to establish a special demonstration project to loan funds to a regional endowment to "...finance new drinking water facilities..." in an area of Southwest Virginia encompassing Planning Districts 1 and 2. This endowment was established to assist in meeting the special needs of Southwest Virginia. In prior years, VDH elected to provide a total of \$10 million from its capitalization grants as loans to the endowment. That goal has been reached and no additional funding is provided. The relationship between this special endowment program and the Virginia DWSRF Program is that of the loan and the common goal of correcting health needs.

## **TRANSFER OF FUNDS**

Subject to the maximums allowed under the SDWA, set-aside funds may be transferred between another set-side or between the state loan fund but no grant payments (per the DWSRF Program Rule) for the state loan fund may be transferred to a set-aside.

No DEQ CWSRF repayment revenue is planned for transfer into the DWSRF Program under Section 302 of the Safe Drinking Water Act Amendments of 1996. Such transfer funds can only be used as loan funds, not grants. VDH has not requested funds from DEQ as VDH's current list of drinking water projects that are ready to proceed can be fully funded without a transfer.

## **FINANCIAL HEALTH**

The Program will be managed to maximize both the tangible and intangible benefits available to waterworks owners and the citizens of the Commonwealth. The financial health of the Program lies in two areas, in active non-construction activities and in loans. Both areas interact and affect the other's effectiveness. Activities promoting or enhancing delivery of a safe potable drinking water reduce the demand on the loan area by insuring the long-term well being of the waterworks. A State Loan Fund will be maintained in perpetuity for providing financial assistance as authorized and limited by the SDWA. A State Loan Fund will be maintained in accordance with the SDWA and will be credited with all payments, repayments of principal and interest on loans, interest on loan accounts and any other source of income accruing to a State Loan Fund. By coordinating the two areas of non-construction and project loans, the overall long-term financial health of the Program will be maintained to the benefit of the citizens of the Commonwealth. This coordination will be done by the strategy of at least annually coupling programmatic considerations with the results of a planning model that considers the aggregate effects of altering financial parameters of the Program. Procedures will be either revised or implemented as needed.

In the Disadvantaged Program (described in VDH's Program Design Manual), loan subsidies in the form of principal forgiveness will decrease the loan funds available; however, principal forgiveness coupled with a comprehensive business plan (capacity development) will reduce the demand on the loan fund by insuring the long term well-being of the waterworks. It will allow waterworks to undertake projects they could not otherwise construct and, therefore, protect the public health. This strategy is one of the strong themes encouraged by Congress.

A unique feature of the Virginia DWSRF Program is the federal statutory language allowing a pilot demonstration project in Southwest Virginia. The Commonwealth has made loan(s) to a regional endowment, and such loan(s) will be repaid with terms and conditions like any other project loan. These loan funds will be invested, and investment proceeds can be for uses other than normally specified by Congress. Such uses will assist in correcting problems faced by communities in Southwest Virginia.

## **USE OF FUNDS**

### **PROJECTS:**

Attached is the Comprehensive Project List showing rank from 1-26. Also attached is the Project Priority List that contains those projects VDH targets to receive funds from this year's funding.

### **SET-ASIDES:**

The set-asides are four categories where non-project funds may be used for specified purposes up to a maximum amount indicated in federal statute. Attached are set-aside suggestions received during the solicitation or public input phase of IUP development. This IUP's set-aside use distribution is shown in the preceding Summary Chart. Shown below are the set-aside uses.

A. Administration and Technical Assistance (**\$458,956** which is **all** of the maximum 4% allowed.

1. Administration – (\$458,956). The purpose of this set-aside is to finance the administrative functions of the Program, such as solicitation of applications, review of selected projects, environmental reviews, determination of applicant's ability to pay back loans, and VDH travel to EPA/CIFA meeting. VDH has budgeted \$342,439 to the Virginia Resources Authority (VRA) for credit analysis summaries for each project, project loan closings, funding disbursements, accounting tasks, compliance review of closed loans, annual audit of the construction loan fund, and participation with VDH on EPA's annual onsite program review.
2. Technical Assistance – (\$0). No new money is added this year.

B. Small System Technical Assistance (No funds are earmarked out of the 2% maximum allowed; the entire **2%** will be reserved for possible use out of a future grant.)

Activities expected to be addressed in small system technical assistance include, but are not limited to, the following:

- Providing technical assistance to small waterworks (transient noncommunity) that includes working with the transient noncommunity waterworks to understand the waterworks' responsibilities and reporting requirements under state and federal law. Funds will pay for the equivalent of 3.5 full time employees (FTE), i.e., 4 part-timers for 1,500 hours per year for 1 year. Funds were provided in earlier grants; no new money is added this year (\$0). (2004 IUP activity).
- Working with waterworks in developing and implementing a Source Water Protection Program (SWPP). These waterworks will be selected by solicitation of



those interested in developing SWPPs. Funds were provided in earlier grants; no new money is added this year (\$0).

- Professional Development Seminar Series - Providing specialty seminars and training events for waterworks owners on topics such as emergency planning, business plan development, emerging technology, regulatory compliance, etc. Funds were provided in earlier grants; no new money is added this year (\$0).
- Providing funding for development of a Small Business Management Institute. Funds were provided in earlier grants; no new money is added this year (\$0).
- Providing training scholarships grants for waterworks operators (selection by recommendations from VDH field personnel) to the Water Treatment Plant Operators Short Course and the AWWA Management Institute at Va Tech. Funds were provided in earlier grants; no new money is added this year (\$0).

C. State Program Management (**\$1,147,390** which is **10% all** of the maximum 10% allowed.

1. Public Water System Supervision

- Improve the process to implement new federal rules. Funds will pay for the equivalent of 0.5 FTE of effort for 1 year. This person (regulation developer) will coordinate the efforts needed by the state to develop and process the adoption of any necessary regulations. Funds were provided in earlier grants so no new money is added this year (\$0).
- Continue the FY 2002 consolidation of regulatory oversight of the transient noncommunity waterworks within the Office of Drinking Water by supporting seven full time positions (\$398,858 including fringes and indirect costs).
- Continue the FY 2003 initiative to improve the enforcement program by funding two full time enforcement specialist positions (\$121,049 including fringes and indirect costs).
- Continue to lease office space in order to carry out drinking water activities (\$456,665).
- Continue funds for a contract for a part-time computer support technician's activities (\$14,000).
- Continue funds to support a courier system to deliver required samples to Division of Consolidated Labs (DCLS) (\$48,000).

## 2. Source Water

- Improve VDH's ability to assist waterworks to implement new federal rules. Funds will pay for the equivalent of 0.5 FTE of effort for 1 year. This position will coordinate the efforts needed by the state to oversee source water activities including specialized projects in Karst areas, contracts to waterworks to do specialized studies, and independent studies initiated by VDH. This IUP continues funding included in earlier grants (\$36,548 including fringes and indirect costs).

## 3. Capacity Development

No proposed activities.

## 4. Operator Programs

Continue activity from prior grant to provide support for the distance learning website at Mountain Empire Community College. Use funds in earlier grants and add new money (\$72,270).

### D. Local Assistance and other State Programs (**\$444,000** which is **3.8696%**). The maximum is 15% with no more than 10% in a category).

#### 1. Loan and Protection Measures

- No new money is added this year for waterworks to buy land or conservation easements necessary for source water protection (\$0).
- No new money is added this year for implementing voluntary incentive based source water protection measures (\$0).

#### 2. Capacity Development (\$394,000 which is 3.43%)

- Continue providing direct assistance to waterworks in completing comprehensive business plans and the mentoring program. Funds were provided in earlier grants so no new money is added this year (\$0).
- Receivership Program support – This activity assists in stabilizing waterworks lacking managerial and technical operation capacity. This activity will add to the tools in the VDH's Capacity Development Strategy. This activity begins after a court appoints a receiver from a list supplied by VDH. This unconventional technical assistance activity will provide funds for a limited time (about one year) to supplement the waterworks revenue to pay for the receiver's contract and for stabilizing activities needed to provide safe water to existing consumers. In about one year of activity the waterworks would be

connected to an existing waterworks or a new owner found. Use funding from prior grants. No new funding added this year (\$0). (2004 IUP activity).

- Technical Assistance - continue funds for capacity development/project planning technical assistance grants (\$344,000).
- Leak detection program grant – this new activity will assist waterworks owners by providing specific funds for leak detection activities. The results will provide owners the information needed to upgrade aged waterlines (\$50,000). (New activity).

### 3. Source Water

No funds are allowed after the FY 1997 grant.

### 4. Wellhead Protection

Funds are proposed for use in supplementing existing state efforts to further protect source water (\$50,000).(New activity).

DWSRF Program - FY 2005  
Project Priority List

| FY 2005 Virginia DWSRF Program |                |                                           |            |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                     |                                                                                                                                |            |                     |                    |                                     |                                                                                                                                                       |      |                    |                  |                                             |                 |
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| PWS ID                         | County or City | Owner Name                                | Owner Type | Project Name                                            | Project Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Project Problem                                                                                                                                     | Project Benefit                                                                                                                | Population | Project Connections | Designation        | Activity                            | Point Total                                                                                                                                           | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Grant Remaining |
| 6047400                        | Culpeper       | Skyline Water Co. Inc.                    | I-O        | Pelham Manor Well and Well Houses                       | To reconstruct both well house to current standards and develop a new source for the Stunkle well house.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Well houses have poor construction and undersized storage because of their age.                                                                     | This project will provide adequate pressure to the distribution system and eliminate the use of water that may cause cancer.   | 280        | 71                  | H                  | Active                              | 26                                                                                                                                                    | 1    | 205,575            | 205,575          | 205,575                                     | 14,161,117      |
| 1051                           | Dickenson      | Dickenson County Public Service Authority | P-O        | Big Caney Water Project (Project 2)                     | The project will install 36,700 LF of 8 inch waterline, 19,000 LF of 6 inch line and 5,050 LF of 2 inch line; also constructed will be 369 reconnects; 86 gate valves will be installed along with one (1) new 200,000 gallon storage tank, one (1) river crossing and one (1) railroad crossing; and 50 tons of stone and related costs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unsafe, inadequate and unreliable water supply                                                                                                      | The benefit of this project is that all of the 369 households will have a safe, adequate and reliable water supply.            | 849        | 369                 | O                  | Active-Has other VDH funding source | 41                                                                                                                                                    | 2    | 2,345,400          | 1,231,750        | 418,795                                     | 13,536,747      |
| 1195050                        | Wise           | Appalachia, Town of                       | P-O        | Town of Appalachia's Infrastructure Improvement Project | Proposed water system improvements will include replacement of existing meters with installation of 1,428 touch-read meters, installation of new telemetry system, installation of clearwell baffles, and water leak correction after locations of leaks are identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Problems with water and sewer systems                                                                                                               | Impact the health and safety of the town water users.                                                                          | 2908       | 1192                | O                  | Active-Has other VDH funding source | 33                                                                                                                                                    | 3    | 501,855            | 463,355          | 185,342                                     | 13,351,405      |
| 1173481                        | Smyth          | Marion, Town of                           | P-O        | Marion Water Treatment System Improvements              | Replace pumps, motors, valves and provide 1000 ft of 16" water pipe and electric valve to connect existing spring to wet well; replace existing mechanical flash mixer with static mixer and new piping to abandon existing basin; provide permanent polyaluminum chloride and caustic feed facilities with safety equipment; baffles within the existing basin to minimize short circuiting; replacement of existing gravity filter underdrains, filter media, control valves and air release valves; upgrade of existing chlorinators; replace masonry baffle wall with new masonry wall; replacement of existing vertical turbine pumps, motors and control valves; new raw, treated, filtered and finished water turbidity and pH meters; radio based telemetry system for pump station control, tank level and security monitoring; SCADA system; building facilities upgrades, laboratory equipment; backflow preventer replacement; sample pump replacement; replace existing door, heater, upgrade chlorinator, replace fluoride feeder for Town spring; and site improvements. | WTP, Town spring and associated pump stations and storage tanks experiencing wear through aging which result in loss of water service to customers. | This project will address treatment system weak points and continue safe drinking water availability for the Town's customers. | 7746       | 3521                | O                  | Active                              | 33                                                                                                                                                    | 4    | 1,576,700          | 1,576,700        | 1,576,700                                   | 11,774,705      |

DWSRF Program - FY 2005  
Project Priority List

| FY 2005 Virginia DWSRF Program |                |                                          |            |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |                                                                                                                           |            |                     |             |                          |                                                                   |      |                    |                  |                                             |             |                 |
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| Designation Codes:             |                |                                          |            |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |                                                                                                                           |            |                     |             | H = health               |                                                                   |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |                                                                                                                           |            |                     |             | O = other                |                                                                   |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |                                                                                                                           |            |                     |             | N = not eligible         |                                                                   |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |                                                                                                                           |            |                     |             | P = in pipeline; pending |                                                                   |      |                    |                  |                                             |             |                 |
|                                |                |                                          |            |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |                                                                                                                           |            |                     |             | I I V                    | with their response/lack of response to our solicitation request. |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                               | Owner Type | Project Name                             | Project Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Project Problem                                                                                                                                                  | Project Benefit                                                                                                           | Population | Project Connections | Designation | Activity                 | Point Total                                                       | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 3001833                        | Accomack       | Tangier, Town of                         | P-O        | Tangier Island Water System Upgrade      | Improvements and upgrades to the water supply, water treatment, storage and distribution with 8 of the existing wells being abandoned and 2 new wells installed with 100 ft. of 8" ductile iron raw water line and 1600 ft. of 6" raw water line and related site work and controls, a treatment building with reverse osmosis, transfer pumps, 1800 gall storage tank, emergency generator and all related electrical and mechanical equipment; existing tank will be painted and upgraded; 3200 ft. of 8" and 900 ft. of 6" water main will be replaced with PVC and 1200 ft. of residential water service lines will be replaced; 330 touch read meters and required billing software will be installed. | The water system is not in compliance because of health issues (water quality), water quantity, water treatment, source water protection and other deficiencies. | This project will bring the waterworks into compliance with the Virginia Waterworks Regulations.                          | 604        | 311                 | O           | Active                   | 30                                                                | 5    | 2,704,000          | 2,674,000        | 2,285,568                                   | 4,671,980   | 9,489,137       |
| 1750100                        | Radford        | City of Radford                          | P-O        | Radford Water Tank Rehabilitation        | Renovation of two elevated tanks: Monroe Terrace 0.5m6 tank-42' D,A, 48' height; and Monroe Terrace 1.0m6 Tank-59.2 feet diameter, 48 feet height.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Deterioration of water tanks                                                                                                                                     | Renovation would return the tanks to a reliable source of storage.                                                        | 2500       | 700                 | O           | Active                   | 28                                                                | 6    | 167,700            | 167,700          | 167,700                                     | 4,839,680   | 9,321,437       |
| 1195900                        | Wise           | Wise County Public Service Authority     | P-O        | North Fork Water Extension               | The proposed project includes installations of 12,800 LF of 8" water line, 33,100 LF of 6" water line, 13,200 LF of 4" water line, 10,000 LF of 2" water line, 1,550 LF of 3/4" water line, 13,350 LF of 3/4" LMI Service Line, all water service line appurtenances, 30 fire hydrants for fire protection and new water service to 145 total households.                                                                                                                                                                                                                                                                                                                                                   | Wells and springs with poor water quality                                                                                                                        | This project will allow residents to have a safe and quality water source.                                                | 344        | 141                 | O           | Active                   | 26                                                                | 7    | 1,822,455          | 481,875          | 481,875                                     | 5,321,555   | 8,839,562       |
| 2023400                        | Botetourt      | Griffith Park Water Company, Inc.        | I-O        | Griffith Park Water Company, Inc.        | Install a regenerating green sand filter and building drain, clean and repaint all interior surfaces of the storage and HP tanks with corrosion resistant epoxy paint.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Positive bacterial testing, elevated levels of iron and manganese and SMCL                                                                                       | The upgrade of the system will address the elevated iron and managanese levels in the system and control the SMCL levels. | 75         | 25                  | O           | Active                   | 21                                                                | 8    | 121,051            | 121,051          | 121,051                                     | 5,442,606   | 8,718,511       |
| 1185755                        | Tazewell       | Tazewell County Public Service Authority | P-O        | Clifffield Water Line Extension          | Approximately 5,500 linear feet of 10-inch water line, 160 linear feet of 8 inch water line, 10,750 linear feet of 6 inch water line, and 2,000 linear feet of 4 inch water line serving approximately 60 connections.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Poor quality and/or quantity of water from contaminated wells and springs.                                                                                       | The project will provide an approved and dependable public potable water supply to individuals.                           | 144        | 55                  | O           | Active                   | 17                                                                | 9    | 795,428            | 795,428          | 795,428                                     | 6,238,034   | 7,923,083       |
| 2125325                        | Nelson         | Nelson County                            | P-O        | Piney River Water Line Extension Project | This project consists of 35,000 LF of 8 inch water main, 2,500 LF of 6 inch water main, 32 hydrants, and related items including service laterals for 11 users.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Faling wells and water quality and quantity problems                                                                                                             | This project will provide sanitary drinking water to 111 homes and businesses.                                            | 252        | 99                  | O           | Active                   | 15                                                                | 10   | 1,928,219          | 1,553,469        | 1,553,469                                   | 7,791,503   | 6,369,614       |

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Project Priority List

| FY 2005 Virginia DWSRF Program |                |                                         |            |                                                           |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                                                                                                                  |            |                     |             |                                     |                                                                   |      |                    |                  |                                             |             |                 |
|--------------------------------|----------------|-----------------------------------------|------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------|-------------|-------------------------------------|-------------------------------------------------------------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|
| Designation Codes:             |                |                                         |            |                                                           |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                                                                                                                  |            |                     |             | H = health                          |                                                                   |      |                    |                  |                                             |             |                 |
|                                |                |                                         |            |                                                           |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                                                                                                                  |            |                     |             | O = other                           |                                                                   |      |                    |                  |                                             |             |                 |
|                                |                |                                         |            |                                                           |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                                                                                                                  |            |                     |             | N = not eligible                    |                                                                   |      |                    |                  |                                             |             |                 |
|                                |                |                                         |            |                                                           |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                                                                                                                  |            |                     |             | P = in pipeline;pending             |                                                                   |      |                    |                  |                                             |             |                 |
|                                |                |                                         |            |                                                           |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                                                                                                                  |            |                     |             | I I V                               | with their response/lack of response to our solicitation request. |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                              | Owner Type | Project Name                                              | Project Description                                                                                                                                                                                                                                                                                                                                                            | Project Problem                                                                     | Project Benefit                                                                                                                                                                  | Population | Project Connections | Designation | Activity                            | Point Total                                                       | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 1191883                        | Washington     | Washington County Service Authority     | P-O        | Logan Creek/Yellow Springs/Fudge Rd Extension             | This project would construct 4 to 8" water line extensions for a total of 10,100 feet.                                                                                                                                                                                                                                                                                         | Private water source inadequate in quantity and/or quality.                         | This project would provide water to approx. 17 residential connections that do not have access to public water.                                                                  | 40         | 17                  | O           | Active                              | 14                                                                | 11   | 218,521            | 193,021          | 193,021                                     | 7,984,524   | 6,176,593       |
| 1169405                        | Scott          | Gate City, Town of                      | P-O        | Gate City-Manville Road/Red Hill Water Project            | This project will serve approximately 157 residential connections and will be comprised of 50,129 LF of distribution line and related appurtenances and also include one (1) booster pump station and a 158,000 gallon water storage tank. This project will also eliminate the existing Red Hill Subdivision water system by connecting this system onto the Gate City sysem. | Significant water quality and pressure problems                                     | This project will provide safe, potable water to the residents of the Manville Road/Red Hill communities. A privately owned water system would be tied onto the Gate City system | 370        | 157                 | O           | Active                              | 12                                                                | 12   | 1,828,600          | 1,726,150        | 1,726,150                                   | 9,710,674   | 4,450,443       |
| 2109510                        | Louisa         | Louisa County Water Authority           | P-O        | LCWSA- water source improvements                          | Upgrade 4 well houses, install new pumps and controls, install disinfection equipment and corrosion control equipment and replace meters.                                                                                                                                                                                                                                      | Low chlorine residuals and bad bacteria samples.                                    | These upgrades will increase the chlorine residuals correcting the failed bacteria samples.                                                                                      | 2360       | 850                 | O           | Active                              | 12                                                                | 13   | 200,000            | 200,000          | 200,000                                     | 9,910,674   | 4,250,443       |
| 1167900                        | Russell        | Russell County Public Service Authority | P-O        | Miller Creek/Frank's Hollow/Honeysuckle Lane WL Extension | This project involves the installation of approximately 8,240 LF of 6 inch water line, 10,515 LF of 4 inch water line, and 9,090 LF of 2 inch water line in 3 non-contiguous areas to serve a potential of 76 new users.                                                                                                                                                       | Inadequate supply and/or poor quality of individual water sources.                  | This project will supply a safe and dependable water supply of good quality.                                                                                                     | 195        | 78                  | O           | Active-Has other VDH funding source | 10                                                                | 14   | 755,487            | 755,487          | 415,518                                     | 10,326,192  | 3,834,925       |
| 3093190                        | Isle Of Wight  | Bracey Enterprises, Inc.                | I-O        | Clyde's Dale Mobile Community                             | Purchase and install water meters at each domestic connection, 200 +/- units.                                                                                                                                                                                                                                                                                                  | Abuse of water system by waste                                                      | Conservation of water incentive for tenants.                                                                                                                                     | 700        | 200                 | O           | Bypass-has other VDH funding.       | 8                                                                 | 15   | \$40,215           | \$40,215         | \$0                                         | 10,326,192  | 3,834,925       |
| 1167051                        | Russell        | Russell County Public Service Authority | P-O        | Belfast-Highlands/Yates Extension                         | The project includes installation of approximately 8,450 LF of 6 inch water line, 1,780 LF of 2 inch water line in two non-contiguous areas to serve as many as 32 potential new users.                                                                                                                                                                                        | Water supplies of poor quality with iron or coliform contamination in many sources. | This project will provide a safe and dependable water supply.                                                                                                                    | 80         | 32                  | O           | Active-Has other VDH funding source | 5                                                                 | 16   | 342,035            | 342,035          | 181,279                                     | 10,507,471  | 3,653,646       |
| 1167051                        | Russell        | Russell County Public Service Authority | P-O        | Belfast-Rosedale Extension                                | This project includes installation of approximately 34,310 LF of 12 inch water line, 45,560 LF of 6 inch water line 2,000 LF of 2-inch and 1 inch service line to serve 334 potential new users.                                                                                                                                                                               | Water supplies of poor quality and not dependable.                                  | This project will provide a safe and dependable water supply.                                                                                                                    | 813        | 326                 | O           | Active                              | 5                                                                 | 17   | 2,723,881          | 2,723,881        | 2,723,881                                   | 13,231,352  | 929,765         |
| 1105                           | Lee            | Lee County Public Service Authority     | P-O        | Cave Springs Water Extension                              | The proposed project will include installations of 53,500 LF of 8" water line, 3,420 LF of 3/4" water service line, 13,350 LF of 3/4" LMI Service Line, 85,000 gallon water storage tank, a booster pump station, all water service line appurtenances, 53 fire hydrants for fire protection, and new water service to 113 total households.                                   | Problems with quality and quantity of available water source.                       | This project will allow residents to have a safe and quality water source.                                                                                                       | 272        | 113                 | P           | Active-Has other VDH funding.       | 22                                                                | 18   | 2,085,524          | 1,354,524        | 929,765                                     | 14,161,117  | 0               |

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Comprehensive Project List

| FY 2005 Virginia DWSRF Program |                |                                           |            |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                     |                                                                                                                                |            |                     |                    |                                     |                                                                                                                                                       |      |                    |                  |                                             |                 |
|--------------------------------|----------------|-------------------------------------------|------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------|---------------------|--------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------|------------------|---------------------------------------------|-----------------|
|                                |                |                                           |            |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                     |                                                                                                                                |            |                     | Designation Codes: |                                     | H = health<br>O = other<br>N = not eligible<br>P = in pipeline; pending<br>I I with their response/lack of response to our solicitation request.<br>V |      |                    |                  |                                             |                 |
| PWS ID                         | County or City | Owner Name                                | Owner Type | Project Name                                            | Project Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Project Problem                                                                                                                                     | Project Benefit                                                                                                                | Population | Project Connections | Designation        | Activity                            | Point Total                                                                                                                                           | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Grant Remaining |
| 6047400                        | Culpeper       | Skyline Water Co. Inc.                    | I-O        | Pelham Manor Well and Well Houses                       | To reconstruct both well house to current standards and develop a new source for the Stunkle well house.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Well houses have poor construction and undersized storage because of their age.                                                                     | This project will provide adequate pressure to the distribution system and eliminate the use of water that may cause cancer.   | 280        | 71                  | H                  | Active                              | 26                                                                                                                                                    | 1    | 205,575            | 205,575          | 205,575                                     | 14,161,117      |
| 1051                           | Dickenson      | Dickenson County Public Service Authority | P-O        | Big Caney Water Project (Project 2)                     | The project will install 36,700 LF of 8 inch waterline, 19,000 LF of 6 inch line and 5,050 LF of 2 inch line; also constructed will be 369 reconnects; 86 gate valves will be installed along with one (1) new 200,000 gallon storage tank, one (1) river crossing and one (1) railroad crossing; and 50 tons of stone and related costs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unsafe, inadequate and unreliable water supply                                                                                                      | The benefit of this project is that all of the 369 households will have a safe, adequate and reliable water supply.            | 849        | 369                 | O                  | Active-Has other VDH funding source | 41                                                                                                                                                    | 2    | 2,345,400          | 1,231,750        | 418,795                                     | 13,536,747      |
| 1195050                        | Wise           | Appalachia, Town of                       | P-O        | Town of Appalachia's Infrastructure Improvement Project | Proposed water system improvements will include replacement of existing meters with installation of 1,428 touch-read meters, installation of new telemetry system, installation of clearwell baffles, and water leak correction after locations of leaks are identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Problems with water and sewer systems                                                                                                               | Impact the health and safety of the town water users.                                                                          | 2908       | 1192                | O                  | Active-Has other VDH funding source | 33                                                                                                                                                    | 3    | 501,855            | 463,355          | 185,342                                     | 13,351,405      |
| 1173481                        | Smyth          | Marion, Town of                           | P-O        | Marion Water Treatment System Improvements              | Replace pumps, motors, valves and provide 1000 ft of 16" water pipe and electric valve to connect existing spring to wet well; replace existing mechanical flash mixer with static mixer and new piping to abandon existing basin; provide permanent polyaluminum chloride and caustic feed facilities with safety equipment; baffles within the existing basin to minimize short circuiting; replacement of existing gravity filter underdrains, filter media, control valves and air release valves; upgrade of existing chlorinators; replace masonry baffle wall with new masonry wall; replacement of existing vertical turbine pumps, motors and control valves; new raw, treated, filtered and finished water turbidity and pH meters; radio based telemetry system for pump station control, tank level and security monitoring; SCADA system; building facilities upgrades, laboratory equipment; backflow preventer replacement; sample pump replacement; replace existing door, heater, upgrade chlorinator, replace fluoride feeder for Town spring; and site improvements. | WTP, Town spring and associated pump stations and storage tanks experiencing wear through aging which result in loss of water service to customers. | This project will address treatment system weak points and continue safe drinking water availability for the Town's customers. | 7746       | 3521                | O                  | Active                              | 33                                                                                                                                                    | 4    | 1,576,700          | 1,576,700        | 1,576,700                                   | 11,774,705      |

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| FY 2005 Virginia DWSRF Program |                |                                          |            |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |                                                                                                                           |            |                     |             |          |             |      |                    |                  |                                             |             |                 | Designation Codes: |  | H = health | O = other | N = not eligible | P = in pipeline;pending | with their response/lack of response to our solicitation request. |  |  |  |  |
|--------------------------------|----------------|------------------------------------------|------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------|---------------------|-------------|----------|-------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|--------------------|--|------------|-----------|------------------|-------------------------|-------------------------------------------------------------------|--|--|--|--|
| PWS ID                         | County or City | Owner Name                               | Owner Type | Project Name                             | Project Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Project Problem                                                                                                                                                  | Project Benefit                                                                                                           | Population | Project Connections | Designation | Activity | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |                    |  |            |           |                  |                         |                                                                   |  |  |  |  |
| 3001833                        | Accomack       | Tangier, Town of                         | P-O        | Tangier Island Water System Upgrade      | Improvements and upgrades to the water supply, water treatment, storage and distribution with 8 of the existing wells being abandoned and 2 new wells installed with 100 ft. of 8" ductile iron raw water line and 1600 ft. of 6" raw water line and related site work and controls, a treatment building with reverse osmosis, transfer pumps, 1800 gall storage tank, emergency generator and all related electrical and mechanical equipment; existing tank will be painted and upgraded; 3200 ft. of 8" and 900 ft. of 6" water main will be replaced with PVC and 1200 ft. of residential water service lines will be replaced; 330 touch read meters and required billing software will be installed. | The water system is not in compliance because of health issues (water quality), water quantity, water treatment, source water protection and other deficiencies. | This project will bring the waterworks into compliance with the Virginia Waterworks Regulations.                          | 604        | 311                 | O           | Active   | 30          | 5    | 2,704,000          | 2,674,000        | 2,285,568                                   | 4,671,980   | 9,489,137       |                    |  |            |           |                  |                         |                                                                   |  |  |  |  |
| 1750100                        | Radford        | City of Radford                          | P-O        | Radford Water Tank Rehabilitation        | Renovation of two elevated tanks: Monroe Terrace 0.5m6 tank-42' D,A, 48' height; and Monroe Terrace 1.0m6 Tank-59.2 feet diameter, 48 feet height.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Deterioration of water tanks                                                                                                                                     | Renovation would return the tanks to a reliable source of storage.                                                        | 2500       | 700                 | O           | Active   | 28          | 6    | 167,700            | 167,700          | 167,700                                     | 4,839,680   | 9,321,437       |                    |  |            |           |                  |                         |                                                                   |  |  |  |  |
| 1195900                        | Wise           | Wise County Public Service Authority     | P-O        | North Fork Water Extension               | The proposed project includes installations of 12,800 LF of 8" water line, 33,100 LF of 6" water line, 13,200 LF of 4" water line, 10,000 LF of 2" water line, 1,550 LF of 3/4" water line, 13,350 LF of 3/4" LMI Service Line, all water service line appurtenances, 30 fire hydrants for fire protection and new water service to 145 total households.                                                                                                                                                                                                                                                                                                                                                   | Wells and springs with poor water quality                                                                                                                        | This project will allow residents to have a safe and quality water source.                                                | 344        | 141                 | O           | Active   | 26          | 7    | 1,822,455          | 481,875          | 481,875                                     | 5,321,555   | 8,839,562       |                    |  |            |           |                  |                         |                                                                   |  |  |  |  |
| 2023400                        | Botetourt      | Griffith Park Water Company, Inc.        | I-O        | Griffith Park Water Company, Inc.        | Install a regenerating green sand filter and building drain, clean and repaint all interior surfaces of the storage and HP tanks with corrosion resistant epoxy paint.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Positive bacterial testing, elevated levels of iron and manganese and SMCL                                                                                       | The upgrade of the system will address the elevated iron and managanese levels in the system and control the SMCL levels. | 75         | 25                  | O           | Active   | 21          | 8    | 121,051            | 121,051          | 121,051                                     | 5,442,606   | 8,718,511       |                    |  |            |           |                  |                         |                                                                   |  |  |  |  |
| 1185755                        | Tazewell       | Tazewell County Public Service Authority | P-O        | Clifffield Water Line Extension          | Approximately 5,500 linear feet of 10-inch water line, 160 linear feet of 8 inch water line, 10,750 linear feet of 6 inch water line, and 2,000 linear feet of 4 inch water line serving approximately 60 connections.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Poor quality and/or quantity of water from contaminated wells and springs.                                                                                       | The project will provide an approved and dependable public potable water supply to individuals.                           | 144        | 55                  | O           | Active   | 17          | 9    | 795,428            | 795,428          | 795,428                                     | 6,238,034   | 7,923,083       |                    |  |            |           |                  |                         |                                                                   |  |  |  |  |
| 2125325                        | Nelson         | Nelson County                            | P-O        | Piney River Water Line Extension Project | This project consists of 35,000 LF of 8 inch water main, 2,500 LF of 6 inch water main, 32 hydrants, and related items including service laterals for 11 users.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Faling wells and water quality and quantity problems                                                                                                             | This project will provide sanitary drinking water to 111 homes and businesses.                                            | 252        | 99                  | O           | Active   | 15          | 10   | 1,928,219          | 1,553,469        | 1,553,469                                   | 7,791,503   | 6,369,614       |                    |  |            |           |                  |                         |                                                                   |  |  |  |  |



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| FY 2005 Virginia DWSRF Program |                |                                         |            |                                                           |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                                                                                                                  |            |                     |             |                                     |             |                                                                                                                                                         |                    |                  |                                             |             |                 |
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|                                |                |                                         |            |                                                           |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                                                                                                                  |            |                     |             | Designation Codes:                  |             | H = health<br>O = other<br>N = not eligible<br>P = in pipeline; pending<br>I = with their response/lack of response to our solicitation request.<br>V = |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name                              | Owner Type | Project Name                                              | Project Description                                                                                                                                                                                                                                                                                                                                                            | Project Problem                                                                     | Project Benefit                                                                                                                                                                  | Population | Project Connections | Designation | Activity                            | Point Total | Rank                                                                                                                                                    | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 1191883                        | Washington     | Washington County Service Authority     | P-O        | Logan Creek/Yellow Springs/Fudge Rd Extension             | This project would construct 4 to 8" water line extensions for a total of 10,100 feet.                                                                                                                                                                                                                                                                                         | Private water source inadequate in quantity and/or quality.                         | This project would provide water to approx. 17 residential connections that do not have access to public water.                                                                  | 40         | 17                  | O           | Active                              | 14          | 11                                                                                                                                                      | 218,521            | 193,021          | 193,021                                     | 7,984,524   | 6,176,593       |
| 1169405                        | Scott          | Gate City, Town of                      | P-O        | Gate City-Manville Road/Red Hill Water Project            | This project will serve approximately 157 residential connections and will be comprised of 50,129 LF of distribution line and related appurtenances and also include one (1) booster pump station and a 158,000 gallon water storage tank. This project will also eliminate the existing Red Hill Subdivision water system by connecting this system onto the Gate City sysem. | Significant water quality and pressure problems                                     | This project will provide safe, potable water to the residents of the Manville Road/Red Hill communities. A privately owned water system would be tied onto the Gate City system | 370        | 157                 | O           | Active                              | 12          | 12                                                                                                                                                      | 1,828,600          | 1,726,150        | 1,726,150                                   | 9,710,674   | 4,450,443       |
| 2109510                        | Louisa         | Louisa County Water Authority           | P-O        | LCWSA- water source improvements                          | Upgrade 4 well houses, install new pumps and controls, install disinfection equipment and corrosion control equipment and replace meters.                                                                                                                                                                                                                                      | Low chlorine residuals and bad bacteria samples.                                    | These upgrades will increase the chlorine residuals correcting the failed bacteria samples.                                                                                      | 2360       | 850                 | O           | Active                              | 12          | 13                                                                                                                                                      | 200,000            | 200,000          | 200,000                                     | 9,910,674   | 4,250,443       |
| 1167900                        | Russell        | Russell County Public Service Authority | P-O        | Miller Creek/Frank's Hollow/Honeysuckle Lane WL Extension | This project involves the installation of approximately 8,240 LF of 6 inch water line, 10,515 LF of 4 inch water line, and 9,090 LF of 2 inch water line in 3 non-contiguous areas to serve a potential of 76 new users.                                                                                                                                                       | Inadequate supply and/or poor quality of individual water sources.                  | This project will supply a safe and dependable water supply of good quality.                                                                                                     | 195        | 78                  | O           | Active-Has other VDH funding source | 10          | 14                                                                                                                                                      | 755,487            | 755,487          | 415,518                                     | 10,326,192  | 3,834,925       |
| 3093190                        | Isle Of Wight  | Bracey Enterprises, Inc.                | I-O        | Clyde's Dale Mobile Community                             | Purchase and install water meters at each domestic connection, 200 +/- units.                                                                                                                                                                                                                                                                                                  | Abuse of water system by waste                                                      | Conservation of water incentive for tenants.                                                                                                                                     | 700        | 200                 | O           | Bypass-Has other VDH funding.       | 8           | 15                                                                                                                                                      | \$40,215           | \$40,215         | \$0                                         | 10,326,192  | 3,834,925       |
| 1167051                        | Russell        | Russell County Public Service Authority | P-O        | Belfast-Highlands/Yates Extension                         | The project includes installation of approximately 8,450 LF of 6 inch water line, 1,780 LF of 2 inch water line in two non-contiguous areas to serve as many as 32 potential new users.                                                                                                                                                                                        | Water supplies of poor quality with iron or coliform contamination in many sources. | This project will provide a safe and dependable water supply.                                                                                                                    | 80         | 32                  | O           | Active-Has other VDH funding source | 5           | 16                                                                                                                                                      | 342,035            | 342,035          | 181,279                                     | 10,507,471  | 3,653,646       |
| 1167051                        | Russell        | Russell County Public Service Authority | P-O        | Belfast-Rosedale Extension                                | This project includes installation of approximately 34,310 LF of 12 inch water line, 45,560 LF of 6 inch water line 2,000 LF of 2-inch and 1 inch service line to serve 334 potential new users.                                                                                                                                                                               | Water supplies of poor quality and not dependable.                                  | This project will provide a safe and dependable water supply.                                                                                                                    | 813        | 326                 | O           | Active                              | 5           | 17                                                                                                                                                      | 2,723,881          | 2,723,881        | 2,723,881                                   | 13,231,352  | 929,765         |
| 1105                           | Lee            | Lee County Public Service Authority     | P-O        | Cave Springs Water Extension                              | The proposed project will include installations of 53,500 LF of 8" water line, 3,420 LF of 3/4" water service line, 13,350 LF of 3/4" LMI Service Line, 85,000 gallon water storage tank, a booster pump station, all water service line appurtenances, 53 fire hydrants for fire protection, and new water service to 113 total households.                                   | Problems with quality and quantity of available water source.                       | This project will allow residents to have a safe and quality water source.                                                                                                       | 272        | 113                 | O           | Active-Has other VDH funding.       | 22          | 18                                                                                                                                                      | 2,085,524          | 1,354,524        | 929,765                                     | 14,161,117  | 0               |

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| FY 2005 Virginia DWSRF Program |                |                                         |            |                                                   |                                                                                                                                                                                                                                                                          |                                                                                         |                                                                                                                                                                                   |            | Designation Codes:  |             | H = health                                           |                                                                   |      |                    |                  |                                             |             |                 |  |
|--------------------------------|----------------|-----------------------------------------|------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------|-------------|------------------------------------------------------|-------------------------------------------------------------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|--|
|                                |                |                                         |            |                                                   |                                                                                                                                                                                                                                                                          |                                                                                         |                                                                                                                                                                                   |            |                     |             | O = other                                            |                                                                   |      |                    |                  |                                             |             |                 |  |
|                                |                |                                         |            |                                                   |                                                                                                                                                                                                                                                                          |                                                                                         |                                                                                                                                                                                   |            |                     |             | N = not eligible                                     |                                                                   |      |                    |                  |                                             |             |                 |  |
|                                |                |                                         |            |                                                   |                                                                                                                                                                                                                                                                          |                                                                                         |                                                                                                                                                                                   |            |                     |             | P = in pipeline; pending                             |                                                                   |      |                    |                  |                                             |             |                 |  |
|                                |                |                                         |            |                                                   |                                                                                                                                                                                                                                                                          |                                                                                         |                                                                                                                                                                                   |            |                     |             | I I V                                                | with their response/lack of response to our solicitation request. |      |                    |                  |                                             |             |                 |  |
|                                |                |                                         |            |                                                   |                                                                                                                                                                                                                                                                          |                                                                                         |                                                                                                                                                                                   |            |                     |             |                                                      |                                                                   |      |                    |                  |                                             |             |                 |  |
| PWS ID                         | County or City | Owner Name                              | Owner Type | Project Name                                      | Project Description                                                                                                                                                                                                                                                      | Project Problem                                                                         | Project Benefit                                                                                                                                                                   | Population | Project Connections | Designation | Activity                                             | Point Total                                                       | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |  |
| 1195900                        | Wise           | Wise County Public Service Authority    | P-O        | Lower Birchfield/Route 72 Water Extension Project | The project consists of a water pipe extension including the following: 8" of 9,800 LF, 6" of 28,500 LF, 4" of 1,000 LF, 2" of 1,300 LF, service line of 5,000 LF, one PRV station due to elevation differences throughout the project area, and one water storage tank. | Individual wells, springs, and cisterns/reservoirs water quality and quantity concerns. | This benefit from the project will be public water service and potable and palatable water.                                                                                       | 232        | 95                  | P           | Bypass - Not Ready. Trying to get more users. Active | 20                                                                | 19   | 1,397,006          | 1,397,006        | 0                                           | 14,161,117  | 0               |  |
| 5089                           | Henry          | Henry County Public Service Authority   | P-O        | Chestnut Knob/Ridgeway Water Extensions Project   | This project will include approximately 50,400 LF of 12", 8", and 6" water line, two main-line pressure reducing valve stations, and related improvements.                                                                                                               | No public water service and water storage tank in poor condition.                       | This project will provide a surface water supply source to 3 existing HCPSA well systems, potential new customers and allow future water transfers from the Philpott water plant. | 510        | 230                 | P           | Bypass - Not Ready. Trying to get more users. Active | 18                                                                | 20   | 2,321,000          | 2,123,200        | 0                                           | 14,161,117  | 0               |  |
| 1191883                        | Washington     | Washington County Service Authority     | P-O        | Blackwell Chapel/Chestnut Ridge WL Extension      | This project would construct 34,580 feet of 8" water lines. The project would connect the Route 740 pressure zone with the Seven Springs/Mahanaim pressure zone. Pressure reducing valves would be used to match pressures.                                              | Private water source inadequate in quantity and/or quality.                             | This project would provide water to approx. 109 residential connections who do have access to public water.                                                                       | 278        | 109                 | P           | Bypass - Not Ready. Trying to get more users. Active | 14                                                                | 21   | 719,911            | 556,411          | 0                                           | 14,161,117  | 0               |  |
| 1191883                        | Washington     | Washington County Service Authority     | P-O        | Alex Road/Bluff Hollow Water Line Extension       | This project would construct 2-4" water line extensions for a total of 6,760 feet.                                                                                                                                                                                       | Private water source inadequate in quantity and/or quality.                             | This project would provide water to an estimated 10 residential connections who do not have access to public water.                                                               | 17         | 7                   | P           | Bypass - Not Ready. Trying to get more users. Active | 13                                                                | 22   | 123,200            | 112,700          | 0                                           | 14,161,117  | 0               |  |
| 1035088                        | Carroll        | Carroll County Public Service Authority | P-O        | Coon Ridge Road Water Extensions                  | The project includes approximately 35,500 LF of 8" and 18,500 LF of 6" water line and related appurtenances.                                                                                                                                                             | No public water service available to citizens of Coon Ridge Road.                       | This project will make public water available to 180 homes and also interconnect the HCPSA's eastern and western water systems allowing for water transfers between the systems.  | 358        | 180                 | P           | Bypass - Not Ready. Trying to get more users. Active | 12                                                                | 23   | 1,917,000          | 1,917,000        | 0                                           | 14,161,117  | 0               |  |
| 1191883                        | Washington     | Washington County Service Authority     | P-O        | Chestnut Mountain Water Line Extension            | This project would construct 5,269 feet of 4" water line, and a 25-gmp pump station that will deliver flow to a 15,000 gallon bulk storage tank.                                                                                                                         | Private water source inadequate in quantity and/or quality.                             | This project would provide water to approx. 13 residential connections who do not have access to public water.                                                                    | 24         | 13                  | P           | Bypass - Not Ready. Trying to get more users. Active | 11                                                                | 24   | 201,758            | 182,298          | 0                                           | 14,161,117  | 0               |  |
| 1191883                        | Washington     | Washington County Service Authority     | P-O        | Painter Creek Water Line Extension                | This project proposes 6,800 feet of 6-inch water line extensions. Water to serve the extension will be purchased from Intermont Utility District of Bristol TN through 2 master meters.                                                                                  | Private water source inadequate                                                         | This project would provide an adequate supply of safe drinking water, as well as fire flow capabilities.                                                                          | 234        | 13                  | P           | Bypass - Not Ready. Trying to get more users. Active | 7                                                                 | 25   | 153,104            | 135,104          | 0                                           | 14,161,117  | 0               |  |

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Comprehensive Project List

| FY 2005 Virginia DWSRF Program |                |                       |            |                                   | Designation Codes:                                                                                                                                                    |                                                 |                                                         |            |                     | H = health               |                                                                   |             |      |                    |                  |                                             |             |                 |
|--------------------------------|----------------|-----------------------|------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------|------------|---------------------|--------------------------|-------------------------------------------------------------------|-------------|------|--------------------|------------------|---------------------------------------------|-------------|-----------------|
|                                |                |                       |            |                                   |                                                                                                                                                                       |                                                 |                                                         |            |                     | O = other                |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                       |            |                                   |                                                                                                                                                                       |                                                 |                                                         |            |                     | N = not eligible         |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                       |            |                                   |                                                                                                                                                                       |                                                 |                                                         |            |                     | P = in pipeline; pending |                                                                   |             |      |                    |                  |                                             |             |                 |
|                                |                |                       |            |                                   |                                                                                                                                                                       |                                                 |                                                         |            |                     | II                       | with their response/lack of response to our solicitation request. |             |      |                    |                  |                                             |             |                 |
|                                |                |                       |            |                                   |                                                                                                                                                                       |                                                 |                                                         |            |                     | V                        |                                                                   |             |      |                    |                  |                                             |             |                 |
| PWS ID                         | County or City | Owner Name            | Owner Type | Project Name                      | Project Description                                                                                                                                                   | Project Problem                                 | Project Benefit                                         | Population | Project Connections | Designation              | Activity                                                          | Point Total | Rank | Project Total Cost | Requested Amount | Eligible Amount (estimated) from this Grant | Cummulative | Grant Remaining |
| 3053248                        | Dinwiddie      | Fox Run Water Company | I-O        | Chesdin Manor Source Improvements | This project provides treatment of drinking water for uranium removal at the waterworks serving the subdivisions of Chesdin Manor and River Road in Dinwiddie County. | Problems with quality of available source water | This project will provide residents good quality water. | 448        | 116                 | P                        | Bypass - Not Ready. No PER. Active                                | 0           | 26   | 200,000            | 200,000          | 0                                           | 14,161,117  | 0               |

DWSRF Program  
Set-aside Suggestion List  
FY 2005

The Virginia Department of Health received these suggestions during the solicitation / public input phase of developing the Intended Use Plan and considered them in the development of the set-aside portion of the Intended Use Plan.

| Owner Name                               | Requested Amount | Activity Description                                                                                                                                     | Funded Yes/No | Amount       |
|------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|
| Town of Hamilton                         | \$10,200.00      | Refine the Town's delineation of wellhead protection for well 14 based on available well,spring and map data.                                            | No            | \$0.00       |
| Town of Rural Retreat                    | \$7,100.00       | Refine the Town's delineation of wellhead protection for the Phillippi Spring and well based on available well,spring and map data.                      | No            | \$0.00       |
| Virginia Water Resources Research Center | \$75,000.00      | Develop "Guidelines for Extraction of Mine Cavity Water for Drinking Water Supplies in Coalfield Counties of Virginia".                                  | No            | \$0.00       |
| Virginia Water Resources Research Center | \$22,000.00      | Provide web based decision support for financial management of small water systems.                                                                      | No            | \$0.00       |
| DEQ                                      | \$358,497.50     | Locate Regulated Petroleum Tank Facilities using GPS technology and capturing it in a GIS format.                                                        | No            | \$0.00       |
| Jim Spencer                              | \$50,000.00      | Perform leak detection activities to identify needed upgrades to waterline.                                                                              | Yes           | \$50,000.00  |
| Mountain Empire Community College        | \$72,270.00      | Continue development of on line Water Degree Program, build and modify its web site, hire several staff, provide scholarships, contract web expert, etc. | Yes           | \$72,270.00  |
| EPA III                                  | \$50,000.00      | Establish well head program.                                                                                                                             | Yes           | \$50,000.00  |
| TOTALS                                   | \$645,067.50     |                                                                                                                                                          |               | \$172,270.00 |

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